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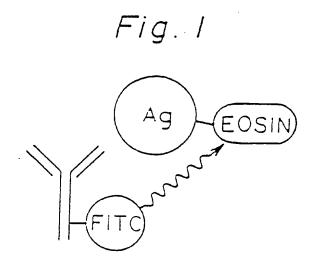
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71 Applicant: THE UNIVERSITY OF MARYLAND AT BALTIMORE 520 W. Lombard Street Baltimore Maryland 21201-1527 (US) 10037 Fox den Road
Ellicott City, Maryland 21042 (US)
Inventor: Maliwal, Badri
2803 North Calvert Street N 1
Baltimore, Maryland 21218 (US)
Inventor: Thompson, Richard
7106 Bristol Road
Baltimore, Maryland 21212 (US)
Inventor: Ozinskas, Alvydas
5002 Centaurus Court
Dayton, Maryland 21036 (US)

(74) Representative: Rodhain, Claude et al Cabinet Claude Rodhain 30, rue la Boétie F-75008 Paris (FR)

- 54 Fluorescent energy transfer immunoassay.
- A fluorometric luminescence immunoassay method includes forming a sample by exposing a first immune reaction reactant to a second immune reaction reactant capable of reacting with the first reactant, one of the first and second immune reaction reactants being labelled with a photoluminescent energy transfer donor and the other being labelled with a photoluminescent energy transfer acceptor complementary to the photoluminescent donor. At least the photoluminescent donor has the property of photoluminescence, and the photoluminescent donor and acceptor are chosen so that when the first immune reaction reactant reacts with the second immune reaction reactant, the donor and the acceptor are capable of interacting to produce a detectable luminescence lifetime change. The sample is excited with radiation, and the resulting emission is detected. The apparent luminescent lifetime is then calculated to determine the presence of a reaction product of the first and second immune reaction reactants.





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